



蚬壳星盈科技(深圳)有限公司
GALACTIC COMPUTING (SHENZHEN) LIMITED
Subsidiary of Shell Electric Mfg. (Holdings) Co. Ltd.

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***"The World's Highest Efficiency Supercomputer based on
Intel® Xeon™ Processors and Mellanox InfiniBand
Interconnect is Developed and Made in China".***

Shenzhen, China – July 7, 2005 – In recent years, Galactic Computing (Shenzhen) Ltd, a subsidiary of HK public-held Shell Electric Mfg. (Holdings) Co. Ltd (SMC), has been focusing in design and manufacturing in China a new generation of Supercomputing Blade System to provide a highly parallel and scalable information utility grid computing platform for science, engineering and commercial applications, such as petroleum exploration, weather forecast, aerospace, material science, biomedical research, e-healthcare and digital hospital, e-entertainment and digital home, e-learning and digital school, electronic tracking and modern logistics, collaborative advanced design and manufacturing.

Having installed successfully on Nov. 2004 a GT1000 Supercomputing Blade System (1 Teraflops) at Beijing Biomedical Research Institute, Galactic Computing just completed another GT4000 Supercomputing Blade System (281 blades, 562 Intel® Xeon™ processors) which has attained the world rank of 100 according to the 2005 June 22nd release of Top500 supercomputers list. The peak performance of the entire system is 4.046 Teraflops and the HPLinpack performance is 3.413 Teraflops which corresponds to the efficiency of 84.35%.

GT4000 result demonstrates the highest HPLinpack efficiency in the world among teraflops scale supercomputers based on x86 processors which have been announced to date.



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Dr. Steve Chen, CEO and Founder of Galactic Computing and Chief System Architect of Supercomputing Blade System said, “while we will crank up system performance gradually, we will continue to focus in creative system architecture and design to achieve highly parallel system efficiency, reliability, usability, and most importantly the actual deliverable performance based on real customers applications solution time and total cost of ownership for a wide range of scientific, engineering and commercial applications in fast growing China and global markets”.

“Incorporating Intel-based platforms and industry standard technologies such as InfiniBand, Galactic’s system delivers incredible teraflops performance in a very efficient manner, enabling faster design and deployment opportunities,” said Pat Gelsinger, Senior Vice President and General Manager, Digital Enterprise Group of Intel Corporation, “This is where high-performance computing is headed. Intel, working with companies like Galactic and Mellanox, is committed to continue delivering these super-fast computers that help speed scientific research, exploration and many other important areas to all of humankind.”

Also, this is the one and only supercomputer in China with completely embedded end-to-end InfiniBand 10 Gb from blade-to-blade and blade-to-storage with 4 microseconds latency (instead of 50 milliseconds as most 1 Gb Ethernet networked server clusters) and can achieve storage data throughput rate up to 820 MB/s (two to three times faster and yet cheaper than Fiber Channel SAN).

“Galactic’s ranking in the Top500 list of supercomputers demonstrates the strength of the Mellanox and Galactic partnership to date,” said Eyal Waldman, President and CEO of Mellanox Technologies. “With overall efficiency ratings above 84% and world-class latency performance, the Galactic GT4000 is proof positive of 10Gb/s InfiniBand technology. Our recent introduction of 20Gb/s InfiniBand DDR solutions continues to push the performance curve while reducing latency, further complementing Mellanox’s partnership with Galactic.”

About Galactic Computing

Galactic Computing (Shenzhen) Limited established in Shenzhen, China in 2002, and a subsidiary of HK public-held Shell Electric Mfg. (Holdings) Co. Ltd (SMC), is a designer and manufacturer of a new generation of Supercomputing Blade System in China. Galactic Computing is focusing in providing world leading Supercomputing Blade Systems in China and worldwide, and owns many patents in Supercomputing Blade System architecture and design in China and worldwide. For more information, please visit <http://www.galactic.com.hk>.



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About Mellanox

Mellanox field-proven offering of interconnect solutions for communications, storage and compute clustering are changing the shape of both business and technical computing. As the leader of industry-standard, InfiniBand-based silicon and card-based solutions, Mellanox is the driving force behind the most cost-effective, highest performance interconnect solutions available. For more information, visit www.mellanox.com.